



Commissioning and Operation

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Connecting the printer



Never operate the printer in an area where it can get wet!

Printer connectors

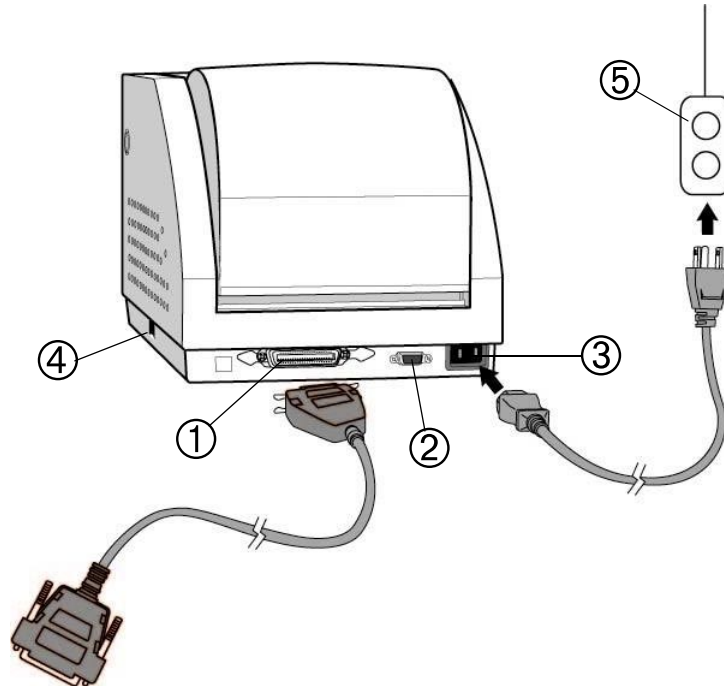


Fig. 1: Printer connectors (rear side of the device).

- Centronics connector (parallel port) (1)
For parallel port connection. Mostly it is connected to the printer port of a PC.
- RS232 connector (serial port) (2)
For serial port connection. Mostly it is connected to the COM. port of a PC.
- AC power socket (3)
For AC power connection.

Connecting the printer

1. Leave the power switch (4) at the "O" Position.
 2. Connect the power supply plug to the power jack (3) and the other end of the cord to your AC outlet (5) (see [Fig. 1](#)).
 3. Connect the printer with any standard Centronics cable to the parallel port of the host computer and to the Centronics connector (1) of the printer.
- Alternatively, you can connect the printer with a serial cable to the RS232C port of your computer or terminal. To do so, plug the end of the cord which carries the male plug to the RS232 connector (2) of the printer!
- Using Centronics allows for a much higher communication speed than the use of a serial!

Operator Controls

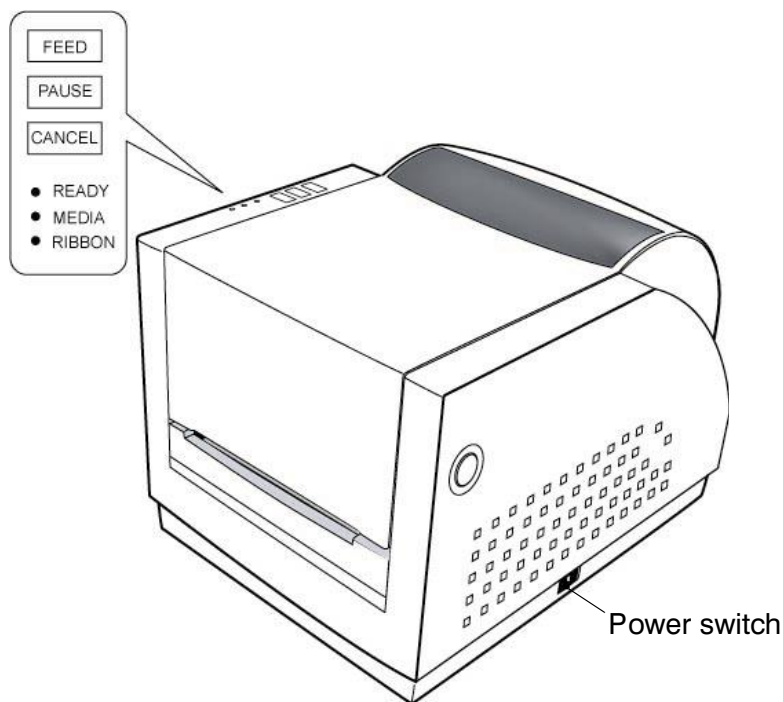


Fig. 2: Operator controls of the printer.

Buttons

There are three buttons (see [Fig. 2](#)), each having two basic functions.

BUTTON	Pressed at normal status	Pressed during power-on
FEED	Feed a label.	Perform a self test for configuration report.
PAUSE	Stop the printing process Resume the printing job after press it again.	Perform the media calibration.
CANCEL	Interrupt and delete the printing job. Force the printer to continue working after an error had been solved.	Reset the settings at E ² PROM.

Tab. 1: Overview buttons.

- **FEED Button**

The FEED button forces the printer to feed one label when printer is idle (not printing) or if in PAUSE state.

Holding down the FEED Button then turning on the power switch, the printer will perform a self test and a configuration report will be printed.

- **PAUSE Button**

The PAUSE Button stops and restarts the printing process in normal operation. If the PAUSE button is pressed while printing is in progress, the printing stops once current label is completed. Press this button again to restart the printing.

Holding down the PAUSE Button then turning on the power switch, the printer will perform the media sensor calibration.

- **CANCEL Button**

The CANCEL Button interrupts and deletes the current printing job. If there is an error indication occurs, pressing this button to cancel the error indication.

Holding down the CANCEL Button then turning on the power switch, the printer will perform a system reset, all the parameters which are stored in EEPROM will be reset to default value.

LED indicators

There are three LED indicators on the front panel, "READY", "MEDIA" and "RIBBON". These indicators display the operation status of the printer.

LED	Meaning
READY	The READY indicator will remain lighted except if any of the following conditions prevail. <ul style="list-style-type: none">- Receiving data from host- A fault condition
MEDIA	The MEDIA indicator will remain on for the normal operation of the printer. <ul style="list-style-type: none">- The printer is at PAUSE state- Blinking – Media run out (READY will be also blinking)
RIBBON	ON - under thermal transfer mode with ribbon installed. OFF - under direct thermal mode. (No ribbon installed) Set by Windows driver or command. <ul style="list-style-type: none">- Blinking - Ribbon run out (READY will be also blinking)

Tab. 2: Overview LED indicators.

Basic Operations

Printing a Configuration Report

1. Turn off the printer. Press and hold the FEED button.
 2. Turn on the power.
 3. READY indicator blinks, release FEED button.
 4. The printer will perform a self test and print out a configuration report (see [Fig. 3](#)).
 5. READY indicator stops blinking and lights up.
 6. The following information will be printed on this report.
- III► After self test the printer will enter character dump mode. For normal operation press the CANCEL button to stop dump mode.

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Entering dump mode

Label Printer with Firmware PPLA R2A0-1.00 052302
RS232 : 2400, 8 DATA BITS, NONE PARITY, 1 STOP BIT
STANDARD RAM: 2097152 BYTES    USASCII
AVAILABLE RAM: 1054272 BYTES
THERMAL TRANSFER
LABEL COUNT: 13                1 M
FLASH MEMORY: ON BOARD
CHECKSUM: 0000
LAB LEN(TOP TO TOP): 38 mm, 304 0 8000 3000 0000 001F
MEDIA SENSOR LEVEL: 3          REFLECT. SENSOR

This is internal font 0. 0123456789 ABCabcXyz
This is internal font 1. 0123456789 ABCabcXyz
This is internal font 2. 0123456789 ABCabcXyz
THIS IS INTERNAL FONT 3. 0123456789 ABCABC
THIS IS INTERNAL FONT 4. 012345678
THIS IS INTERNAL FONT 5. 012345678
THIS IS INTRNL FONT 6
This is internal font 7. 0CR-A ABCabc
0123456789
ASD Smooth font (6 points) - 0123456789 ABCabcXyz
ASD Smooth font (8 points) - 0123456789 ABCabcXyz
ASD Smooth font (10 points) - 0123456789 ABCabcXyz
ASD Smooth font (12 points) - 0123456789 ABCa
ASD Smooth font (14 points) - 0123456789
ASD Smooth font (18 points) - 012
Courier Fonts:
R8/E94/PC/PCA/PCB/LG/GK/RUS

```

Fig. 3: Configuration report.

Some information in the configuration report are important, please check them after the self test:

Item	Meaning
Printer programming language	The printer programming language is listed on the first line of the report . There are two different languages (PPLA and PPLB), Please check for correct version.
CHECKSUM	The CHECKSUM of the FLASH ROM is listed on the eighth line, It should be 0000.

Tab. 3: Items on the Configuration Report.

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Media height:	The height of the media (label paper) is list on the second line from the end. Please check this value if the height of the media is less the 2 inches (50 mm). The listed value should be very close to the height of the media plus the height of one gap, otherwise the calibration of media sensor is required.
Label count and length	This message shows the number of labels and length has been printed since it was produced at factory.

Tab. 3: Items on the Configuration Report.

Performing a Calibration

After the media loaded, it is necessary to do the calibration for the label size detection.

1. Press and hold the PAUSE button.
2. Turn on the power.
3. MEDIA indicators will blink, at this point release Pause button.
4. The printer will feed the labels for 12 inches.
5. MEDIA indicators stop blinking and remain illuminated.

During the media calibration, 12 inches of media will be fed out. MEDIA indicators will be blinking for few seconds during calibration is proceeding. Then turn on printer again after the calibration is completed. Without the proper calibration, the gap detection will not stable especially for the small labels (less than 2.0 inches in height).

After the calibration, all the related parameters will be stored in the EEPROM which is located on Main board.

■ This procedure is very important and must always be carried out after installation and every time the media type is changed. Failure to do so will result in the gap and label-empty detection being incorrect.

Performing a Factory Reset

If you would like to reset the printer to its factory defaults after certain commands have been sent or settings changed:

1. Turn off the printer. Press and hold the CANCEL button.
2. Turn on the power.
3. Ribbon indicator blinks, release the button.
4. Ribbon indicator stops blinking and lights up.
5. The following parameters automatically reset.
 - Label parameters
 - Heat(Darkness)
 - Speed
 - Symbol set (language)
 - Others for specific emulation

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- ■ ■ ➔ All settings stored in non-volatile E²PROM cannot be destroyed even by turning the printer off.
- ■ ■ ➔ It is necessary to perform label sensitivity calibration after resetting.
- ■ ■ ➔ The printed label count can not be reset.

Driver Installation

Installing „Label Dr.“

- Before installation, please make sure your "user's right" is up to the level of 'Administrator'.
- 1. Click the "Start" button.
- 2. Select "Setting", then select "Printers" and double click the "Add Printer" icon. Click "Next".
- 3. Click the "Network" or "Local" button and click the "Next" button.
- 4. Click "Have Disk", click the pull-down menu to select CD ROM driver path.
- 5. Click "Browse" button.
- 6. Select the proper directory for installation:
 - WIN98
 - WIN2000
 - NT4.0
 - WIN XP
- 7. The driver name "Label Dr. 200" (or Label Dr.300) will appear in the "List of Printers", click "Next".
- 8. Select "Replace Existing Driver".
- 9. Select the communication port for the label printer. For parallel port, select "LPT1:", "LPT2:" or "LPT3:", for serial port select "COM1:" or "COM2:".
- 10. After the related files have been copied to your system, the installation is complete.
- 11. If you need to print from the label printer, set "Label Dr. 200" (or Label Dr. 300) as the Default Printer.
- If you are just updating your driver, make sure to delete the previous version first!
- If you install a new bar code application software like ArgoBar, LabelLView or CodeSoft, the Label Dr. 200 (or Label Dr. 300) driver should be activated and set as the current printer driver:
 - ArgoBar
File >New >Select Printer >Label Dr. on LPT1 >OK
 - LabelView
File >Select Printer >Label Dr. on LPT1: >OK
 - CodeSoft
File >Printer >Windows >Label Dr. on LPT1: >OK
 - LabelMatrix
File >Printer Setup >Label Dr. on LPT1: >OK

Setting the Parameters

→ After installing the driver, you can follow the path below to set parameters:

Start > Settings > Printers > Label Dr. > Properties

The parameters include:

Parameter	Description
Ports	Select the IO port to link with the printer. The port may be one of parallel (LPT), serial (COM), net work port or file.
Paper size	Select the proper size on the menu. If there is no desired size, select "Custom" (only in Win98/95/Me) to define the paper size.
Create a new size	Define paper size in Win 2000/XP/NT4.0.
Orientation	Set portrait or landscape according to the print direction.
Paper source (Media type)	T/T stands for thermal transfer (ribbon) mode and D/T for direct thermal mode (without ribbon).
Media choice (Darkness)	Set the heat value or darkness from this field. The darkness value ranges from 0 to 15.
Copies	This function designates the number of printed copies of each page.
More option (Accessory setting)	To use the cutter and peeler function you still need to enter „More Options“ and select one of the items. (Set DIP Switch also).
Device options (Speed)	Set the printer speed. For the R-400, the speed ranges from 1 to 6 IPS, for the R-600 ranges from 1 to 4 IPS.

Tab. 1: Parameters included in the „Label Dr.“ driver.

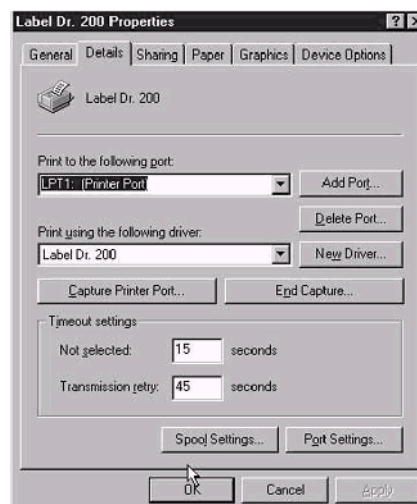
Settings under Windows 98

Ports

Properties menu:

1. Click "Details".
2. Select the IO port.
3. Click "OK".

Fig. 4: Property page „Details“.



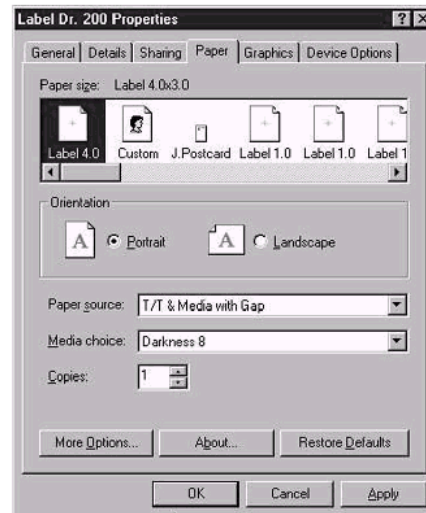
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Orientation**Paper source
(Media type)****Media choice
(Darkness)****Copies**

Properties menu:

1. Click "Paper".
2. Click each item to select desired parameter.
3. Click "OK".

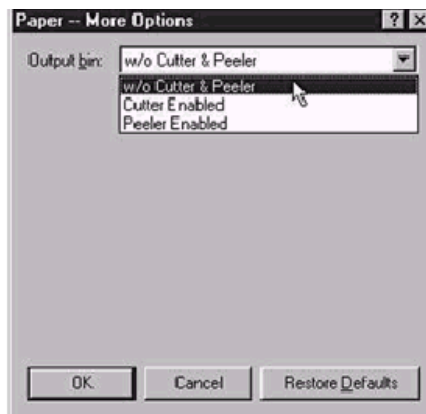
Fig. 5: Property page „Paper“.

**Output bin
(Accessory setting)**

Properties menu:

1. Click "Paper"
2. Click "more option"
3. Select Enable / without cutter, peeler
4. Click "OK"

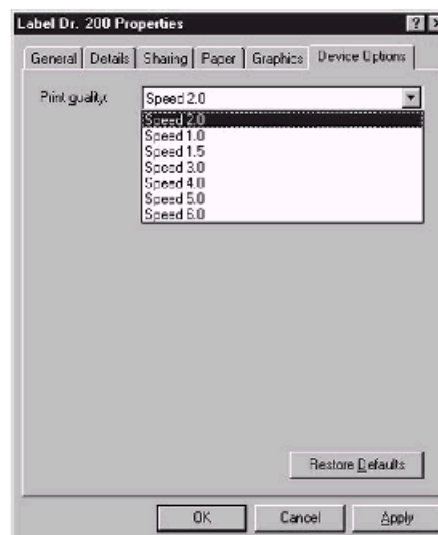
Fig. 6: Property page „Paper“, button „More Options“.

**Print quality
(Speed)**

Properties menu:

1. Click "Device Options"
2. Select parameters
3. Click "OK"

Fig. 7: Property page „Device Options“.

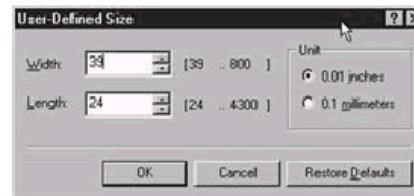
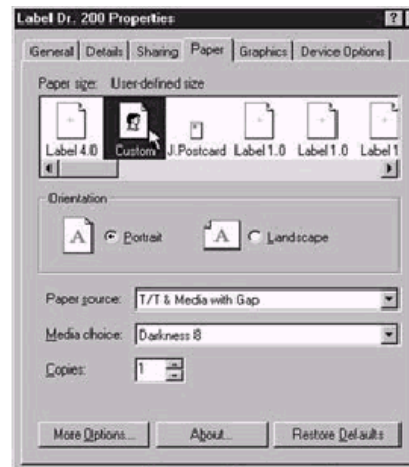


Create User Defined Paper

Properties menu:

1. Click "Paper"
2. Select "Custom"
3. User-Define size
4. Set up a new size
5. Click "OK"

Fig. 8: Property page „Paper“, „User Defined Size“.



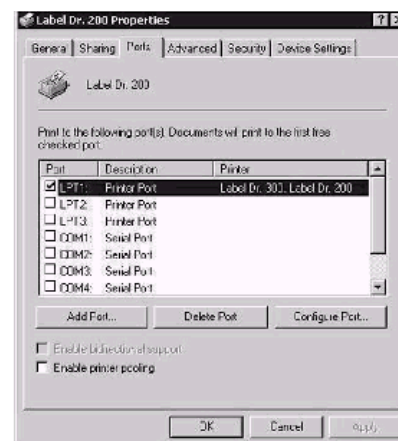
Settings under Windows 2000

Ports

Properties menu:

1. Click "Ports"
2. Select the IO port
3. Click "OK"

Fig. 9: Property page „Ports“.

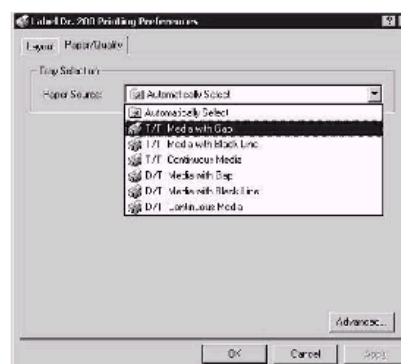


Paper source (Media type)

Back to Printers menu:

1. Label Dr.
2. Right click to get pop-up menu
3. Select "Printing Reference"
4. Click "Paper Quality"
5. Select media type
6. Click "OK"

Fig. 10: Property page „Paper Quality“.

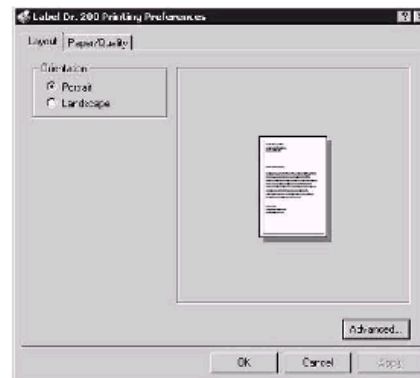


Orientation

Printing Reference menu:

1. Click "Layout"
2. Select "Portrait" or "Landscape"
3. Click "OK"

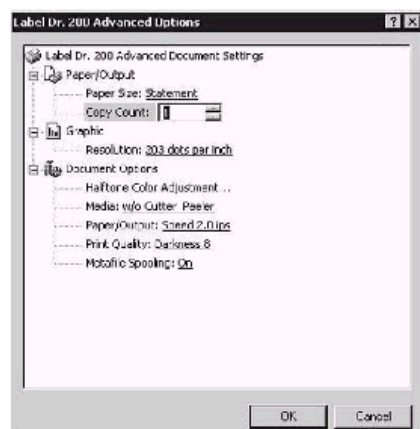
Fig. 11:Property page „Layout“.

**Paper size****Copies****Media choice (Accessory setting)****Paper/Output (Speed)****Print quality (Darkness)**

Printing Reference menu:

1. Click "Layout"
2. Click "Advanced" button
3. Click each item to select the parameters
4. Click "OK"

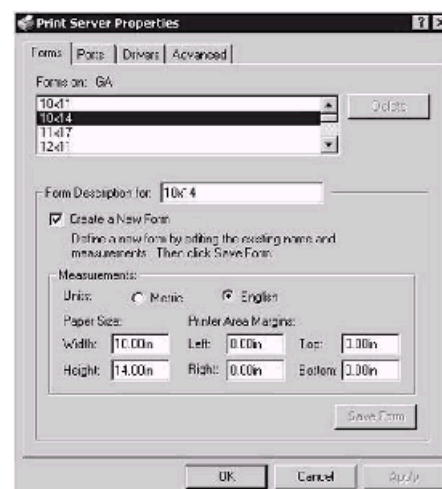
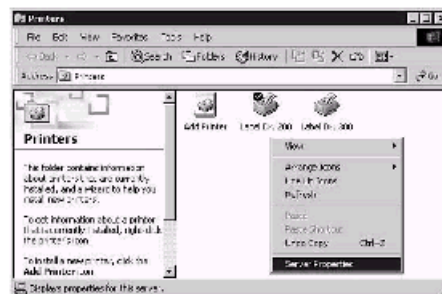
Fig. 12:Property page „Layout“, button „Advanced“.

**Create a new size**

Printer menu:

1. Right click to get pop-up menu in blank space.
2. Select "Server Properties".
3. Enter a form name for the new form in "Form description for".
4. Reset the paper size in the specific squares of the "Measurements".
5. Click "OK"

Fig. 13:Top: Context menu after right click. Below: Menu „Print Server Properties“.



Settings under Windows NT 4.0

Ports

Properties menu:

1. Click "Ports".
2. Select the IO port.
3. Click "OK".

Fig. 14: Property page „Ports“.



Paper size

Orientation

Paper source (Media type)

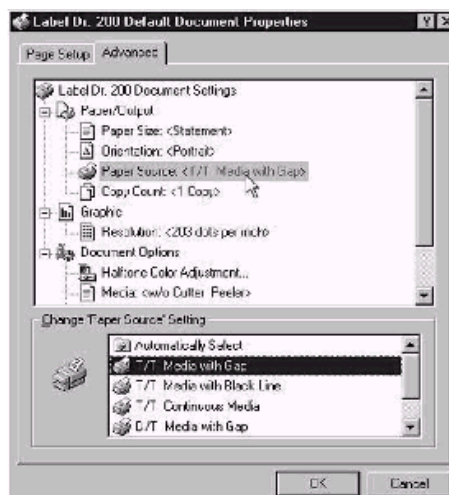
Copies

Media choice(Accessory setting)

Printers menu:

1. Label Dr.
2. Right click to get pop-up menu
3. Select "Document Defaults"
4. Click "Advanced" button
5. Click each item to select desired parameter

Fig. 15: Menue „Document Defaults“, property page „Advanced“.



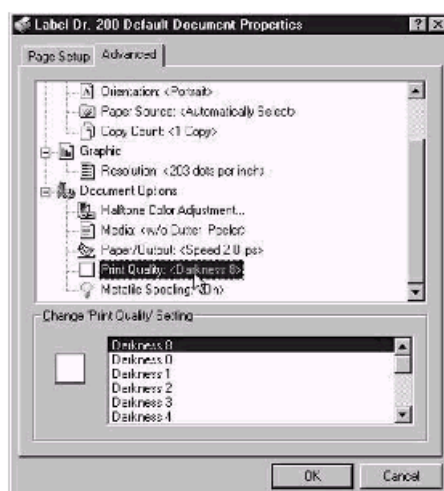
Paper/Output (Speed)

Print quality (Darkness)

Default Document menu:

1. Click "Advanced"
2. Click each item to select desired parameter
3. Click "OK"

Fig. 16: Menu „Default Document“, property page „Advanced“.



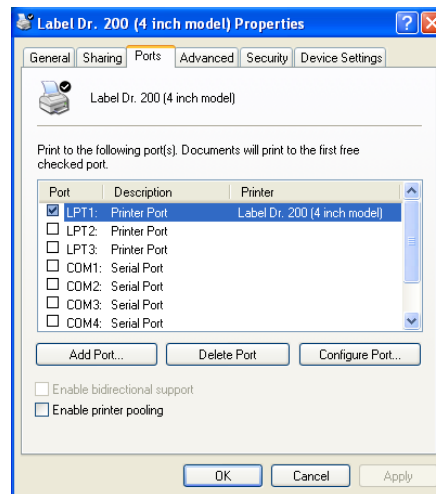
Settings under Windows XP

Ports

Properties menu:

1. Click "Ports"
2. Select the IO port
3. Click "OK"

Fig. 17: Property page „Ports“.

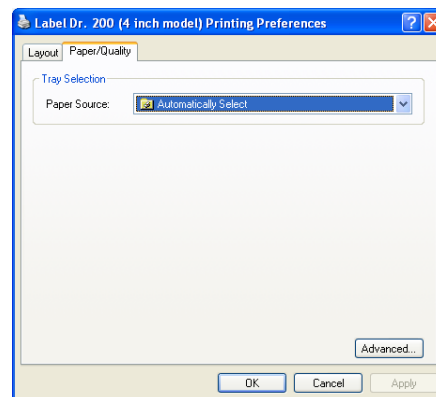


Paper source (Media type)

Back to Printers menu:

1. Label Dr.
2. Right click to get pop-up menu
3. Select "Printing Reference"
4. Click "Paper Quality"
5. Select media type
6. Click "OK"

Fig. 18: Menue „Printing Reference“, property page „Paper Quality“.

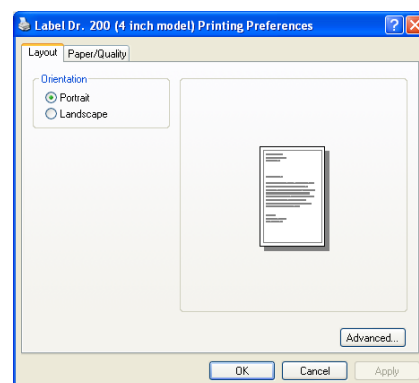


Orientation

Printing Reference menu:

1. Click "Layout"
2. Select "Portrait" or "Landscape"
3. Click "OK"

Fig. 19: Menue „Printing Reference“, property page „Layout“.

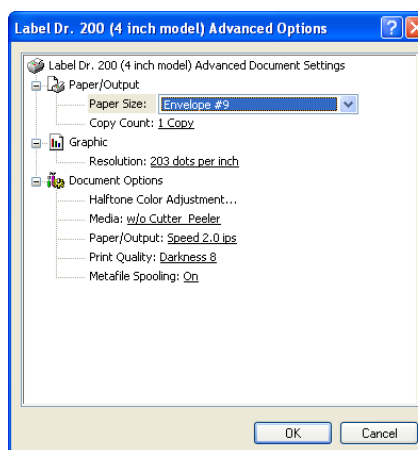


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Paper size**Copies****Media choice (Accessory setting)****Paper/Output (Speed)****Print quality (Darkness)****Printing Reference menu:**

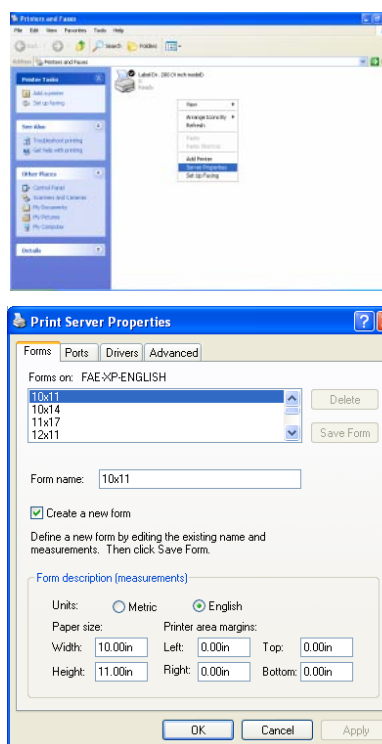
1. Click "Layout".
2. Click "Advanced" button.
3. Click each item to select the parameters.
4. Click "OK".

Fig. 20: Property page „Layout“, „Advanced“ button pressed.

**Create a new size****Printer menu:**

1. Right click to get pop-up menu in blank space.
2. Select "Server Properties".
3. Enter a form name for the new form in "Form description for".
4. Reset the paper size in the specific squares of the "Measurements".
5. Click "OK".

Fig. 21: Menue „Server Properties“, property page „Form“.



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